BRUHAT BANGALORE MAHANAGARA PALIKE

YELAHANKA ZONE

Name Of Work :- Detailed Estimate for Maintenance of Electrical Installations to BBMP division and sudivision buildings coming under yelahanka

Budget Head .....

Division No..... Estimate No. ..... For Rs.= 600000.00

Sl. No.	Description of Work	Qty.	Rate Rs. Ps.	Unit	Amount
1	Providing servicess of Electrician With tools , Rs.14021.27/Month/person, Rs.14021.27 26Days=539.27/Day/Person, Including E.S.I & PF, As per Go No KE/31/LMW/2017 Dated 28/4/2017	250	539.27	Per Day	134817.50
2	Providing servicess of Helper (Electrical) Rs.12746.61/Month/person, Rs.12746.61 26Days = Rs.490.25/Day/Person .Including E.S.I & PF, As per Go No KE/31/LMW/2017 Dated 28/4/2017	250	490.25	Per Day	122562.50
3	Filtering of oil in the transformer at the transformer center by hot process using "Stream line filter" such time the dielectric strength of the oil in the transformer conforms to ISI specification [Test certificate to be produced] KPWD SR ELE 2014-15	100	20.00	Litre	2000.00
4	Supplying and Topping -up of new Transil OIL	40	170.00	Per Litre	6800.00
5	Annual Maintenance of 180 KVA D.G. Set Existing A.M.C. including of labour charges only for replacing the spare parts and periodically checkup of D.G. AMF panel (Without operator)	1	44000.00	Each	44000.00
6	Fluorescent Tube a) 18 to 40Watts	150	50.00	Nos	7500.00
7	20/40 Watts heavy duty open construction Ferromagnetic copper ballast for fluorescent tubes	80	165.00	Nos	13200.00
8	Supply and fixing of 230 volts 20/40/watts starter for Fluorescent lamp	80	31.00	Nos	2480.00
9	Rewinding a ... mm ceiling fan/after using necessary gauge annealed and insulated copper wire with necessary insulating, separators vibration arresting shellac, etc including replacement of bearings if any transportation to and from the spot to workshop inclusive of releasing the refixing 900mm	10	512.00	Nos	5120.00
10	Regular Switches (Flush type) 1) 6 amps S.P. switch	30	11.50	Nos	345.00
11	6Amps 3 way 5 pin Socket	35	31.00	Nos	1085.00
12	16 amps S.P. switch -2)	25	68.00	Nos	1700.00
13	16 amps 3 way 5 pin socket-	30	43.00	Nos	1290.00
14	16 amps 3 pin top -	10	55.00	Nos	550.00
15	32 amps Bakelite DP	15	125.07	Nos	1876.05
16	16/6 Amps Combined plug & socket with control switch	15	221.20	Nos	3318.00
17	Condenser for Ceiling Fan/MV/SV/MH and other Luminaries upto 4 mfd.	25	68.40	Nos	1710.00
18	Supplying and replacing ceiling fan regulator 900mm to 1500mm.	10	172.00	Nos	1720.00
19	Miniature Circuit Breakers 6-32 amps S.P.	10	260.40	Nos	2604.00
20	6-32 amps D.P.	4	545.40	Nos	2181.60
21	50-63 amps TPN:	2	1438.20	Nos	2876.40
22	Wiring for lighting/power circuit using one of FRLS PVC insulated 1100V grade, multistrand copper wire with low conductor resistance single core in open or concealed system of wiring with specified IS-694:confirming to latest amendments. 1.5 sq.mm	120	20.50	Mtrs	2460.00
23	2.5 sq.mm	150	32.00	Mtrs	4800.00
24	Supplying and fixing of T5 Fluorescent Tube with 14W power consumption with low 3mg Mercury content & below 40% glass content than T8 lamp & 20% less phosphor coating than T8 with initial lumen on 1350 (for 3000-6500 deg Kelvin), rated Avg life (12 Hr. Cycle) of greater than 35000 burring hours. Operating voltage range from 180V to 265V, 50Hz AC power Supply28 watts Lamp	6	158.00	Nos	948.00
25	LED Batten with Tube LED light fighting 2 x 4' - 20 /22 w	8	547.00	Nos	4376.00

26	LED Down Light 3) 15-18W	12	1750.00	Nos	21000.00
27	Supplying capacitor type ceiling fan complete with down rod blades, shackle, canopies etc., for operation on 230 volts, 50 cycles. Single phase AC supply conforming to ISS-374- 1979 and with double ball bearing system. 1) 48" Sweep (1200mm) Regular Model	5	2090.00	Nos	10450.00
28	Fixing all types and all capacities of fluorescent / false ceiling / spot light / CFL / LED fittings indoor on the wall / ceiling / rafters / girders using 23/0.0076" twin twisted PVC insulated wires, required Nos of round blocks and clamps.On wall / ceiling / Rafter / Girders	25	110.00	Nos	2750.00
29	Fixing a ceiling / Wall mounting fan of all capacities and all types to the existing 'S' hook with fan regulator to the existing board together with supplying and fixing 5 amps. ceiling rose, necessary length of 23 / 0.0076 inch PVC insulated twin twisted copper wire and wiring.	10	150.00	Nos	1500.00
30	Supplying and installation of insulated refrigerant copper tubing of 5/8`` and 3/8`` with polythene foam insulation 3 core 80 stand copper wiring between indoor and outdoor unit. Leak testing oil and gas charging for additional piping length of	20	1155.00	Mtrs	23100.00
31	Supply and fixing of condensing coil for Split Air Conditioners.2 ton capacity	2	8200.00	Nos	16400.00
32	Supplying and fixing the fan motor for blowers and condenser of 1/5 HP, single shaft/double shaft suitable for split / window air conditioners.	2	3180.00	Nos	6360.00
33	Supplying & fixing relay for over load protection for window and split air conditioners	5	350.00	Nos	1750.00
34	Supplying wall mounting fan suitable to operate at single- phase 230v A.C. supply..400mm Sweep	5	2800.00	Nos	14000.00
35	Moulded Case Circuit Breaker (MCCB) 100 Amps 25 kA,	2	3840.00	Each	7680.00
36	4 Pole Power Contactor with NO/NC Contactor100 to 125Amps	2	4320.00	Each	8640.00
37	PVC Flexible One Pair Telephone Unarmoured Tinned Copper Cable.5Pair	200	37.00	Mtrs	7400.00
38	Supplying, installation, testing & commissioning of 12Volts ..AH batteries in poly propylene container for D.G. sets. Low maintenance batteries, plate type. 120 AH capacity. Acid batteries.	1	18400.00	Nos	18400.00
39	Supplying & Changing of B Check Kit for Engine.	2	3150.00	Nos	6300.00
40	Supplying & Changing of Alternator AVR.(Automatic Voltage Regulator)	1	9600.00	Nos	9600.00
41	Supplying & Changing of Alternator Rectifier	1	2800.00	Nos	2800.00
42	Supplying & Changing of Dynamo repair Kit such as Corbons, Bearings & Diode Etc,.	1	3100.00	Nos	3100.00
43	Supplying & Changing of Batery terminals	2	268.00	Nos	536.00
44	Supplying & Fixing of Air filter	1	2880.00	Nos	2880.00
45	Supplying of 1.1 KV LT UG cable having aluminum conductor PVC insulated, extruded inner sheathed, galvanized, steel strip (except 2CX10Sq.mm wire armoured) confirming to IS-3975:1990 (No. of Strip indicated in GTP) & extruded PVC outer sheathed armoured cable with specified IS-1554 Part-1:1988 & confirming to GTP of GROUP-A.4 core 16 sqmm40/6.4.4	80	150.00	Mtrs	12000.00
46	Labour charges for laying of 1.1 KV class UG cable in existing trench GI pipe / stoneware pipe / on wall / on pole as required. On wall /Structure 6 sqmm to 16 sqmm	80	30.00	Mtrs	2400.00
47	Digging of trench of 0.6m deep x 0.50 mtr wide refilling the trench to the required ground level and consolidating etc., complete.(As per Civil SR KSRB I-2, P-7)In soil (ordinary)	50	76.00	Mtrs	3800.00
48	Fabricating supplying and mounting MS box made out ... SWG suitable for floor / wall mounting, fully weather proof with provision for better heat dissipation, provided with hinged front cover, equipped with tamper proof locking arrangements, with suitable size clamps with necessary cable entry pipe with gland and box should be finished with 7tanks treatment with powder coated paint and finally finished with approved colour etc., complete..16SWG KPWD ELE SR Page-30/5.42.2	25000	0.35	sq.cms	8750.00

49	Wiring for lighting/power circuit using one of PVC insulated 1100v grade, multis and Copper conductor single core cable in open or consealed system of wiring.I Group A Materials.6 sqmm 6/2.3.3	70	70.00	Mtrs	4900.00
50	**GST 12% ON item 6 to 49**				31036.33
51	Misleniuos				147.62
	Total Rs				600000.00

CERTIFICATE

1. The Place was inspected and work is essential
2. The Provision made in the estimate is adequate and are necessary.
3. The Work comes in the BBMP limit and is legitimate charges on the Corporation Funds.
4. The rates in the Estimate is based on PWD (Elec) SR of 2014-15/2019-20 / , BESCOM SR approved rates

Asst. Engineer (Elec)

Asst. Exe.Engineer (Elec)
Sub-Division No.
Bruhat Bangalore Mahanagara Palike

EXECUTIVE ENGINEER (ELEC)
YELAHANKA DIVISION
BRUHAT BANGALORE MAHANAGARA PALIKE

Administrative Sanction for Rs. 600000:00
RUPEES SIX LAKHS ONLY
is accorded under P0294. M AND R TO ELECTRICAL INST. IN BBMP BUILDINGS SCHOOLS. M. HOMES AND OTHERS
Registered as EE 27/2019-20 Subject to conditions contained in Memo No. BBMP/EE/ELE/42/AS/27/2019-20 Dt 18-12-2019
Executive Engineer

TECHNICALLY SANCTIONED FOR Rs. 600000:00
Rupees SIX LAKHS ONLY
Under P0294 M AND R TO ELECTRICAL INST IN BBMP BUILDINGS AND OTHERS
Registered as EE 14/2019-20
Subject contained in enclosed memo No. BBMP/EE/ELE/42/AS/27/19-20 Dt. 18-12-2019 is sanctioned
BBMP/EE/ELE/42/TS/14/2019-20 for Rs. 600000:00
Dated 18-12-2019
Executive Engineer